

WHAT IS CLAIMED IS:

1. An artificial CpG-containing single-stranded oligodeoxynucleotide, which is consisted of single-stranded oligonucleotide DNA molecule containing one or more CpG(s).

2. The oligonucleotide according to claim 1, which has a sequence as defined by SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4 or SEQ ID NO:5.

3. The oligonucleotide according to claim 1 or 2, which has a function of inducing the production of antiviral substances from cell.

4. The oligonucleotide according to claim 3, wherein said virus is single-stranded positive strand RNA virus or influenza virus.

5. The oligonucleotide according to claim 4, wherein said single-stranded positive strand RNA virus is a variant of coronavirus or flaviviridae virus.

6. The oligonucleotide according to claim 5, wherein said variant of coronavirus is SARS virus.

7. The oligonucleotide according to claim 5; wherein said flaviviridae virus is hepatitis C virus, dengue virus or Japanese encephalitis virus.

8. The oligonucleotide according to claim 1 or 2, which has a non-sulfurized, partially sulfurized or completely sulfurized phosphodiester bond.

9. A composition comprising the oligonucleotide according to any one of claims 1-8.

10. The composition according to claim 9, which further comprises other antiviral drugs or vaccines.

11. Use of oligonucleotide according to any one of claims 1-8 or composition according to claim 9 or claim 10 for inducing the production of antiviral substances from cell.

12. Use of oligonucleotide according to any one of claims 1-8 or composition according to claim 9 or claim 10 in the preparation of medicament for preventing or treating diseases caused by virus.

13. The use according to claim 11 or 12, wherein said virus is single-stranded positive strand RNA virus or influenza virus.

14. The use according to claim 13, wherein said single-stranded positive strand RNA virus is a variant of coronavirus or flaviviridae virus.

15. The use according to claim 14, wherein said variant of coronavirus is SARS virus.

16. The use according to claim 14, wherein said flaviviridae virus is hepatitis C virus, dengue virus or Japanese encephalitis virus.

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